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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/035,196

01/04/2002

Dong Hun Kim

0630-1401P

2069

2292

7590

08/28/2003

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EXAMINER

STINSON, FRANKIE L

ART UNIT

PAPER NUMBER

1746

DATE MAILED: 08/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/035,196

Applicant(s)

KIM ET AL.

Examiner

FRANKIE L. STINSON

Art Unit

1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 11-15, 17 and 18 is/are rejected.
- 7) ☒ Claim(s) 5-10, 16, 19 and 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)                      4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)                      5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_                      6) ☐ Other:

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4, 12, 13, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art of fig. 2 in view of either Baermann, Gold et al. or Harmon et al.

Re claim 1, the admitted prior discloses a washing machine comprising a spin basket in a tub, a pulsator, a driving motor, a pulsator shaft, basket shaft, a clutch, a coupling member and an electromagnetive attractive force between the solenoid and the coupling member that differs from the claim only in the recitation of the electromagnetive repulsive force between the solenoid and the coupling member. The patents to Baermann, Gold and Harmon are all cited disclosing clutching equipment where there is disclosed a solenoid providing electromagnetive repulsive force (see Baermann clo.2, lines 43-47; Gold col. 1, lines 26-30 and Harmon col. 3, lines 8-10). It therefore would have been obvious to one of ordinary skill in the art to modify the device of the admitted prior art, to employ a electromagnetive repulsive force as taught by either Baermann, Gold or Harmon, since the Baermann, Gold and Harmon disclose the either an attractive or repulsive force may be used and since this is considered a mere reversal of parts (see MPEM 2144.04 section VI). Re claim 2, the admitted prior art discloses the combined basket shaft and rotor of the driving motor in a serration method being up and down as instantly claimed. Motion. Re claim 3, the admitted prior art

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discloses the bearing housing for supporting the basket fixed to the bottom of the tub with the solenoid being supported to the bearing housing. Re claim 4, the admitted prior art discloses the elastic means as claimed. Re claim 11, the admitted prior art discloses the solenoid coil around the coupling member and the solenoid case fixed to a lower portion of the tub. Re claim 12, the admitted prior art discloses the bearing housing for supporting the basket shaft installed in the lower portion of the housing. Re claim 13, the admitted prior art discloses the solenoid case being formed of a magnetic member. Re claim 17, Harmon disclose the different voltage application. Re claim 18, the admitted prior art disclosed the voltages as claimed.

3. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of either Baermann, Gold et al. or Harmon et al. as applied to claim 1 above, and further in view of either Moehle, Japan 10-311265 (Japan'265) or Apetrei et al.

Claim 14 and 15 define over the applied prior art only in the recitation of the slits of predetermined spacing/ Moehle, Japan'265 and Apetrei discloses the solenoid housing have slits of predetermined spacing as claimed. It therefore would have been obvious to one having ordinary skill in the art to modify the housing of the admitted prior art, to have slits as taught by either Moehle, Japan'265 or Apetrei, for the purpose of cooling the solenoid.

4. Claims 5-10, 16, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In Brady Jr., Japan'530, Germany'180, Dyer, Bae et al., Obradovic, Mohan et al., Pelensky, Nishimura et al., Shelton, Lodge, Breckenridge, Andrew et al., Straub et al., Koseki et al., Crane et al., Schacher et al., Japan'099, Holm-Hansen, Kershaw et al., and Germany'944, note the solenoid operated clutch.

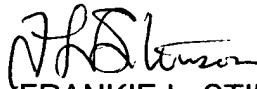
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (703) 308-0661. The examiner can normally be reached during the first week of the pay-period M-F from 5:30 a.m. to 3:00 p.m. and during the second week of the pay-period from Tu-Th second from 5:30 a.m. to 3:00 p.m. and on Fri. from 5:30 a.m. to 2:00 p.m. Alternating Mondays off.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310 (NON-FINAL REJECTION STATUS) and (703) 872-9311 (AFTER-FINAL REJECTION STATUS).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Any inquiry for missing parts of this Office Action (copies of references, pages, forms etc.), contact Office Manager Ms. Sandra Sewell (703) 308-0661.

fls

  
FRANKIE L. STINSON  
Primary Examiner  
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